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| REISSUE APPLICATION DECLARATION BY THE INVENTOR | Docket Number (Optional) VI/99-016.RE |
|---|--|

I hereby declare that:

Each inventor's residence, mailing address and citizenship are stated below next to their name.

I believe the inventors named below to be the original and first inventor(s) of the subject matter which is described and claimed in patent number 6,339,718, granted January 15, 2002, and for which a reissue patent is sought on the invention entitled Programmable Injector Control,

the specification of which

is attached hereto.
 was filed on January 14, 2004 as reissue application number 10/757,348
and was amended January 14, 2004.
(If applicable)

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b). Attached is form PTO/SB/2B (or equivalent) listing the foreign applications.

I verily believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below. (Check all boxes that apply.)

by reason of a defective specification or drawing.
 by reason of the patentee claiming more or less than he had the right to claim in the patent.
 by reason of other errors.

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, such must be stated with an explanation as to the nature of the broadening:

In this broadening reissue, Claims 1 and 48 have been broadened by specifying that each phase is capable of comprising at least one of a contrast medium phase, a flushing medium phase and a KVO phase. Further, new Claim 82 is an independent and broader version of Claim 4 in that the fluid contents of the fluid containers are not specified and reference to the contrast medium phase and the flushing medium phase has been removed.

[Page 1 of 2]

This collection of information is required by 37 CFR 1.175. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(REISSUE APPLICATION DECLARATION BY THE INVENTOR, page 2)

Docket Number (Optional)
VI/99-016.RE

All errors corrected in this reissue application arose without any deceptive intention on the part of the applicant. As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this

Name(s) Registration Number

Gregory L. Bradley, Reg. No.: 34,299James R. Stevenson, Reg. No.: 38,755

Correspondence Address: Direct all communications about the application to:

 Customer Number

21140

OR

 Firm or

Address

Address

City

State

Zip

Country

Telephone

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine and imprisonment, or both, under 18 U.S.C. 1001, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this declaration is directed.

Full name of sole or first inventor (given name, family name)

Douglas M. Zatezalo

Inventor's signature

Date

3/15/2009

Residence Allison Park, Pennsylvania

Citizenship United States of America

Mailing Address 2912 Clearview Road, Allison Park, PA 15101

Full name of second joint inventor (given name, family name)

Jeffrey John Thompson

Inventor's signature

Date

4/2/2004

Residence Allison Park, PA 15101

Citizenship United States of America

Mailing Address 4057 Tall Timber Drive, Allison Park, PA 15101

Full name of third joint inventor (given name, family name)

Steven C. Rygg

Inventor's signature

Date

4/2/2004

Residence Irwin, Pennsylvania

Citizenship United States of America

Mailing Address 121 Maplewood Drive, Irwin, PA 15642

 Additional joint inventors or legal representative(s) are named on separately numbered sheets forms PTO/SB/02A or 02LR attached



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PTO/SB/02A (08-03)
Approved for use through 08/31/2003. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DECLARATION

ADDITIONAL INVENTOR(S)

Supplemental Sheet

3 3
Page _____ of _____

| | | | | |
|--|--------------------------|---|---------------------|-----------------------|
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | |
| Given Name (first and middle (if any) | | Family Name or Surname | | |
| Scott R. | | Griffith | | |
| Inventor's Signature | <i>Scott R. Griffith</i> | | Date 4-2-04 | |
| Residence: City | Delmont | State | PA | Country |
| | | | USA | Citizenship USA |
| Mailing Address | 61 Bel Air Drive | | | |
| Mailing Address | | | | |
| City | Delmont | State | PA | Zip 15626 Country USA |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | |
| Given Name (first and middle (if any) | | Family Name or Surname | | |
| John R. | | Gardner | | |
| Inventor's Signature | <i>John R.</i> | | Date <i>4/15/04</i> | |
| Residence: City | Wexford | State | PA | Country USA |
| Mailing Address | 10202 Fawn Court | | | |
| Mailing Address | | | | |
| City | Wexford | State | PA | Zip 15090 Country USA |
| Name of Additional Joint Inventor, if any: | | <input type="checkbox"/> A petition has been filed for this unsigned inventor | | |
| Given Name (first and middle (if any) | | Family Name or Surname | | |
| Ronald J. | | Barbati | | |
| Inventor's Signature | <i>Ronald J. Barbati</i> | | Date 3-24-04 | |
| Residence: City | Pittsburgh | State | PA | Country USA |
| Mailing Address | 460 Sage Drive | | | |
| Mailing Address | | | | |
| City | Pittsburgh | State | PA | Zip 15243 Country USA |

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/53 (04-04)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**REISSUE APPLICATION: CONSENT OF ASSIGNEE;
STATEMENT OF NON-ASSIGNMENT**

Docket Number (Optional)

VI/99-016.RE

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s) Douglas M. Zatezalo, Jeffrey John Thompson; Steven C. Rygg; Scott R. Griffith; John R. Gardner
Ronald J. Barbati

Patent Number 6,339,718 Date Patent Issued January 15, 2002

Title of Invention PROGRAMMABLE INJECTOR CONTROL

1. Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96)
2. Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".

The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are MEDRAD, INC.,
and the assignee(s) consents to the accompanying application for reissue.

Name of assignee/inventor (if not assigned)

Signature

Date

July 16, 2004

Typed or printed name and title of person signing for assignee (if assigned)

Gregory L. Bradley, Assistant Secretary and Director of Corporate Intellectual Property

This collection of information is required by 37 CFR 1.172. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



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STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: **MEDRAD, INC.**Application No./Patent No.: **6,339,718**Filed/Issue Date: **January 15, 2002**Entitled: **Programmable Injector Control****MEDRAD, INC.**, a **Corporation**

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest; or2. an assignee of less than the entire right, title and interest.The extent (by, percentage) of its ownership interest is _____ %
in the patent application/patent identified above by virtue of either:A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel **010540**, Frame **0674**, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached. Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

July 16, 2004

Date

(412) 767-2400

Telephone number

Gregory L. Bradley

Typed or printed name

Signature

Assistant Secretary; Director of IP

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETE D FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.